Green Points Rating System for Remodeling Projects

Due to the diversity of remodeling project types, assigning a "total points" value to a project to be considered environmentally friendly is not feasible. However, 25 measures have been highlighted to signify that every effort should be made to incorporate them into your projects. These items have been chosen based upon their impact on the environment and the health of the home in coordination with ease of implementation and relative low cost. These measures can be used as a starting point for "greening" your project.

			INPUT	Resources	Energy	IAQ/Health
A. Site						
1. Recycle Job Site Construction & Demolition Waste 65% = 1 point; 75% = 2 points; 80% = 4 points	up to 4 Resource pts			0		
2. Salvage Reusable Building Materials	4 Resource pts	y=yes		0		
3. Remodel for Mixed Use, Adaptive Reuse, and Historic Preservation	4 Resource pts	y=yes		0		
4. Protect Native Soil	2 Resource pts	y=yes		0		
5. Minimize Disruption of Existing Plants & Trees	1 Resource pt	y=yes		0		
6. Implement Construction Site Stormwater Practices	2 Resource pts	y=yes		0		
7. Protect Water Quality with Landscape Design	2 Resource pts	y=yes		0		
8. Design Resource-Efficient Landscapes and Gardens	4 Resource pts	y=yes		0		
9. Reuse Materials/Use Recycled Content Materials for Landscape Areas	2 Resource pts	y=yes		0		
10. Install High-Efficiency Irrigation Systems	2 Resource pts	y=yes		0		
11. Provide for On-Site Water Catchment / Retention	2 Resource pts	y=yes		0		
				0	0	0
B. Foundation						
1. Incorporate Recycled Flyash in Concrete 25% Recycled Flyash = 2 points; Add 1 point for every 10% increase of flyash, up to 5 points	up to 5 Resource pts			0		
2. Use Recycled Content Aggregate	2 Resource pts	y=yes		0		
3. Insulate Foundation/Slab before backfill	3 Energy pts	y=yes			0	
				0	0	0
C. Structural Frame						
1. Substitute Solid Sawn Lumber with Engineered Lumber	3 Resource pts	y=yes		0		
2. Use FSC Certified Wood for framing (For every 10% of FSC lumber used = 2 points, up to 10)	up to 10 Resource pts.			0		
3. Use Wood I-Joists for Floors and Ceilings	2 Resource pts	y=yes		0		
4. Use Web Floor Trusses	2 Resource pts	y=yes		0		
5. Design Energy Heels on Trusses 6" or more	2 Energy pts	y=yes			0	
6. Use Finger-Jointed Studs for Vertical Applications	2 Resource pts	y=yes		0		
7. Use Engineered Studs for Vertical Applications	2 Resource pts	y=yes		0		
8. Use Recycled Content Steel Studs for Interior Framing	2 Resource pts	y=yes		0		
9. Use Structural Insulated Panels (SIPs)						
a. Floors	3 Energy pts	y=yes			0	
b. Wall	3 Energy pts	y=yes			0	
c. Roof	3 Energy pts	y=yes			0	
10. Apply Advanced Framing Techniques	4 Resource pts	y=yes		0		
11. Use Reclaimed Lumber for Non Structural Applications	3 Resource pts	y=yes		0		
12. Use OSB						
a. Subfloors	1 Resource pt	y=yes		0		
b. Sheathing	1 Resource pt	y=yes		0		
				0	0	0

		INPUT	Resources	Energy	IAQ/Health
D. Exterior Finish					
1. Use Sustainable Decking Materials					
a. Recycled content	3 Resource pts y=yes		0		
b. FSC Certified Wood	3 Resource pts y=yes		0		
2. Use Treated Wood That Does Not Contain Chromium/Arsenic	1 IAQ/Health pt y=yes				0
3. Install House Wrap under Siding	1 IAQ/Health pt y=yes				0
4. Use Fiber-Cement Siding Materials	1 Resource pt y=yes		0		
			0	0	0
E. Plumbing					
1. Install Water Heater Jacket	1 Energy pt y=yes			0	
2. Insulate Hot and Cold Water Pipes	2 Energy pts y=yes			0	
3. Retrofit all Faucets and Showerheads with Flow Reducers					
a. Faucets (1 point each, up to 2 points)	Up to 2 Resource pts.		0		
b. Showerheads (1 point each, up to 2 points)	Up to 2 Resource pts.		0		
4. Replace Toilest with Ultra-Low Flush Toilets (1 point each, up to 3 points)	Up to 3 Resource pts.		0		
5. Install Chlorine Filter on Showerhead	1 IAQ/Health pt y=yes				0
6. Convert Gas to Tankless Water Heater	4 Energy pts y=yes			0	
7. Install Water Filtration Units at Faucets (2 points each, up to 4 points)	Up to 4 IAQ/Health pts.				0
8. Install On-Demand Hot Water Circulation Pump	4 Resource pts y=yes		0		
			0	0	0
F. Electrical					
1. Install Compact Fluorescent Light Bulbs (CFLs) (6 bulbs=2 points, 10 bulbs =3 points, 12 bulbs = 4 points)	Up to 4 Energy pts.			0	
2. Install IC-AT Recessed Fixtures with CFLs (1 point each, up to 5 points)	Up to 5 Energy pts.			0	
3. Install Lighting Controls (1 point per fixture, up to 4 points)	Up to 4 Energy pts.			0	
4. Install High Efficiency Ceiling Fans with CFLs (1 point each, up to 4 points)	Up to 4 Energy pts.			0	
			0	0	0
G. Appliances					
1. Install Energy Star Dishwasher	1 Energy pt y=yes			0	
2. Install Washing Machine with Water and Energy Conservation Features	1 Energy pt y=yes			0	
3.Install Energy Star Refrigerator	1 Energy pt y=yes			0	
4. Install Built-In Recycling Center	3 Resource pts y=yes		0		
			0	0	0
H. Insulation					
1. Upgrade Insulation to Exceed Title 24 Requirements					
a. Walls	2 Energy pts y=yes			0	
b. Ceilings	2 Energy pts y=yes			0	
2. Install Floor Insulation over Crawl Space	4 Energy pts y=yes			0	
3. Install Recycled-Content, Fiberglass Insulation with No Added Formaldehyde	3 IAQ/Health pts y=yes				0
4. Use Advanced Infiltration Reduction Practices	2 Energy pts y=yes			0	
5. Use Cellulose Insulation					
a. Walls	4 Resource pts y=yes		0		
b. Ceilings	4 Resource pts y=yes		0		
6. Alternative Insulation Products (Cotton, spray-foam)					
a. Walls	4 Resource pts y=yes		0		
b. Ceilings	4 Resource pts y=yes		0		
			0	0	0

			INPUT	Resources	Energy	IAQ/Health
I. Windows						
1. Install Energy-Efficient Windows						
a. Double-Paned	1 Energy pt	y=yes			0	
b. Low-Emissivity (Low-E)	2 Energy pts	y=yes			0	
c. Low. Conductivity Frames	2 Energy pts	y=yes			0	
2. Install Low Heat Transmission Glazing	1 Energy pt	y=yes			0	
				0	0	0
J. Heating Ventilation and Air Conditioning						
1. Use Duct Mastic on All Duct Joints	2 Energy pts	y=yes			0	
2. Install Ductwork within Conditioned Space	3 Energy pts	y=yes			0	
3. Vent Range Hood to the Outside	1 IAQ/Health pt	y=yes				0
4. Clean all Ducts Before Occupancy	2 IAQ/Health pts	y=yes				0
5. Install Solar Attic Fan	2 Energy pts	y=yes			0	
6. Install Attic Ventilation Systems	1 Energy pt	y=yes			0	
7. Install Whole House Fan	4 Energy pts	y=yes			0	
8. Install Sealed Combustion Units						
a. Furnaces	3 IAQ/Health pts	y=yes				0
b. Water Heaters	3 IAQ/Health pts	y=yes				0
9. Replace Wall-Mounted Electric and Gas Heaters with Through-the-Wall Heat Pumps	3 Energy pts	y=yes			0	
10. Install 13 SEER/11 EER or higher AC with a TXV	3 Energy pts	y=yes			0	
11. Install AC with Non-HCFC Refrigerants	2 Resource pts	y=yes		0		
12. Install 90% Annual Fuel Utilization Efficiency (AFUE) Furnace	2 Energy pts	y=yes			0	
13. Retrofit Wood Burning Fireplaces						
a. Install EPA certified wood stoves/inserts	1 IAQ/Health pt	y=yes				0
b. Install/Replace Dampers	1 Energy pt	y=yes			0	
c. Install Airtight Doors	1 Energy pt	y=yes			0	
14. Install Zoned, Hydronic Radiant Heating	3 Energy pts	y=yes			0	
15. Install High Efficiency Filter	4 IAQ/Health pts	y=yes				0
16. Install Heat Recovery Ventilation Unit (HRV)	5 IAQ/Health pts	y=yes				0
17. Install Separate Garage Exhaust Fan	3 IAQ/Health pts	y=yes				0
				0	0	0
K. Renewable Energy and Roofing						
1. Pre-Plumb for Solar Water Heating	4 Energy pts	y=yes			0	
2. Install Solar Water Heating System	10 Energy pts	y=yes			0	
3. Pre-Wire for Future Photovoltaic (PV) Installation	4 Energy pts	y=yes			0	
4. Install Photovoltaic (PV) System (1.2 kw = 6 points, 2.4 kw = 12 points, 3.6 kw = 18 points)	Up to 18 Energy pts				0	
6. Select Safe and Durable Roofing Materials	1 Resource pt	y=yes		0		
7. Install Radiant Barrier	3 Energy pts	y=yes			0	
				0	0	0
L. Natural Heating and Cooling						
1. Incorporate Passive Solar Heating	5 Energy pts	y=yes			0	
2. Install Overhangs or Awnings over South Facing Windows	3 Energy pts	y=yes			0	
3. Plant Deciduous Trees on the West and South Sides	3 Energy pts	y=yes			0	
				0	0	0

		INPUT	Resources	Energy	IAQ/Health
M. Indoor Air Quality and Finishes					
1. Use Low/No-VOC Paint	1 IAQ/Health pts y=yes				0
2. Use Low VOC, Water-Based Wood Finishes	2 IAQ/Health pts y=yes				0
3. Use Low/No VOC Adhesives	3 IAQ/Health pts y=yes				0
4. Use Salvaged Materials for Interior Finishes	3 Resource pts y=yes		0		
5. Use Engineered Sheet Goods with no added Urea Formaldehyde	6 IAQ/Health pts y=yes				0
6. Use Exterior Grade Plywood for Interior Uses	1 IAQ/Health pts y=yes				0
7. Seal all Exposed Particleboard or MDF	4 IAQ/Health pts y=yes				0
8. Use FSC Certified Materials for Interior Finish	4 Resource pts y=yes		0		
9. Use Finger-Jointed or Recycled-Content Trim	1 Resource pts y=yes		0		
10. Install Whole House Vacuum System	3 IAQ/Health pts y=yes				0
			0	0	0
N. Flooring					
1. Select FSC Certified Wood Flooring	8 Resource pts y=yes		0		
2. Use Rapidly Renewable Flooring Materials	4 Resource pts y=yes		0		
3. Use Recycled Content Ceramic Tiles	4 Resource pts y=yes		0		
4. Install Natural Linoleum in Place of Vinyl	5 IAQ/Health pts y=yes				0
5. Use Exposed Concrete as Finished Floor	4 Resource pts y=yes		0		
6. Install Recycled Content Carpet with Low VOCs	4 Resource pts y=yes		0		
			0	0	0
Total Points Available:			140	130	57
Total Points Project Received:			0	0	0